

## CONDUIT RISERS ON POLES

### 1. General Requirements

All conduits on poles shall be installed in a manner meeting the following requirements:

- 1.1. Minimum interference with pole and crossarm maintenance.
- 1.2. Maximum safety for lineworkers.
- 1.3. Minimum interference with other utilities on the same pole.

### 2. Installation

Conduits on poles shall be installed as follows:

- 2.1. A single conduit smaller than 2" with conductors of less than 750 volts potential may be placed directly on the pole in the crotch of the crossarm (Fig. 2.1)
- 2.2. A single conduit 2" and larger, or one with conductors of 750 volts or more, shall be spaced out from the pole face 4-1/2" and offset to give 1" clear space between the conduit and the center line of the pole lead. (Fig. 2.2)
- 2.3. When two conduits are installed they shall be spaced out 4-1/2" from the face of the pole and separated 2", providing a clear space 1" on each side of the center line of the pole lead. (Fig. 2.3)

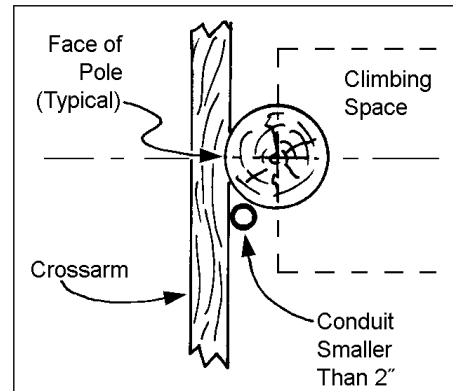


Figure 2.1

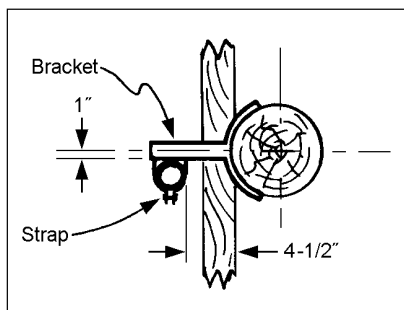


Figure 2.2

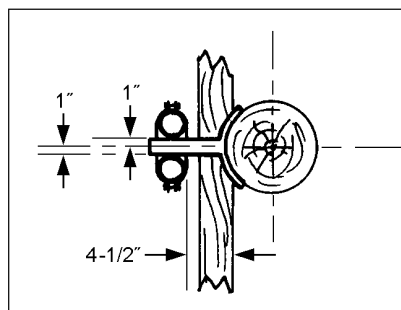


Figure 2.3

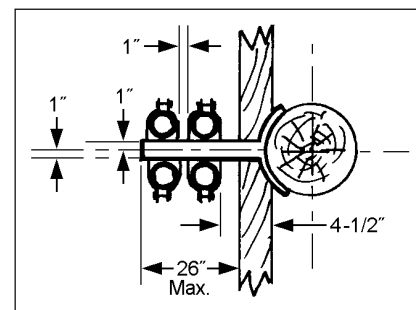


Figure 2.4

- 2.4. It is preferable to limit the number of conduits to two on a pole, but if more than two are required, they shall be installed as in Fig. 2.4. If two voltages are involved, the higher voltage shall be placed next to the pole.
- 2.5. The conduit shall have a minimum of one support in each length of conduit.
- 2.6. On poles with existing conduits, new conduits shall be installed in accordance with this specification. If it is practical, improve the existing conduit installations by moving the pole or conduits.
- 2.7. Where a telephone company terminal box interferes with conduit installation, Distribution Design will make arrangements for its relocation.
- 2.8. For grounding details, see SCL Construction Guideline U7-10.9/NDK-120.
- 2.9. Maximum bracket length shall be 26 inches. The number and size of conduits on a pole is strictly limited to that which can be properly mounted with a 26-inch bracket.

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# SEATTLE CITY LIGHT CONSTRUCTION GUIDELINE

STANDARD NUMBER: **U7-10/NDK-70**  
 PAGE: 2 of 2  
 SUPERCEDING: October 11, 2004  
 EFFECTIVE DATE: December 1, 2004

## 3. Material Requirements

The following material requirements apply to all conduit riser installations:

- 3.1. All conduit risers shall be Schedule 80 PVC or Rigid Steel conduit for the first 8-10 feet above the ground line, and shall be Schedule 40 PVC rigid plastic conduit above 8-10 feet. See Construction Guidelines U7-10.1/ NDK-80 and U7-10.2/NDK-90 for steel conduit installation.
- 3.2. Conduit spaced out from the pole shall be mounted using the following brackets and straps.

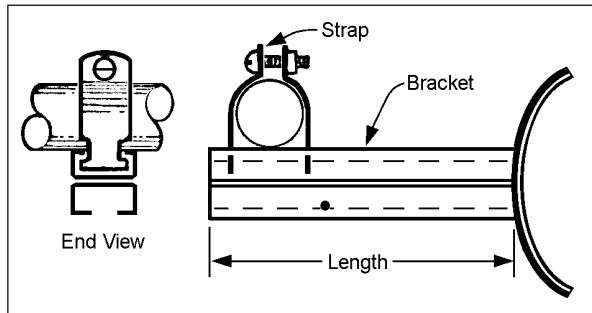


Figure 3.1

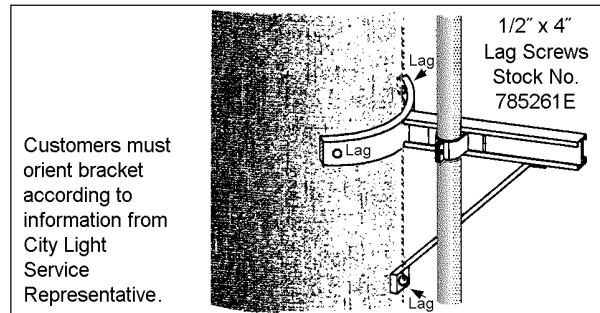


Figure 3.2

## Rigid Plastic Conduit PVC

| Conduit Size, Inches | Schedule 40 Stock No. | Schedule 80 Stock No. | Adapter Coupling Plastic to Metal | Strap   |
|----------------------|-----------------------|-----------------------|-----------------------------------|---------|
| 3/4                  | 734526                | —                     | 734540                            | —       |
| 1                    | 734527                | —                     | 734541                            | 689760E |
| 1-1/4                | 734528                | —                     | 734542                            | 689761E |
| 1-1/2                | 734529                | 738740                | 734543                            | 689762E |
| 2                    | 734530                | 738741                | 734544                            | 689764E |
| 2-1/2                | 734531                | 738742                | 734545                            | 689766E |
| 3                    | 734532                | 738743                | 734537                            | 689768E |
| 3-1/2                | 734533                | 738744                | 734538                            | 689770E |
| 4                    | 734523                | 738745                | 734539                            | 689772E |
| 5                    | 734524                | DO NOT USE            | 734536                            | 689774E |

## 4. Installation of Conduit Support Bracket, with or without a Brace

Install bracket brace for use at top of first 10 ft. length of rigid steel or schedule 80 PVC conduit.

### Conduit Support Bracket

| Length, Inches | Stock No.              |                           |
|----------------|------------------------|---------------------------|
|                | Pole Riser, With Brace | Pole Riser, Without Brace |
| 10-1/2         | 686792E                | 686784E                   |
| 12-1/2         | 686794E                | 686786E                   |
| 18             | 686796E                | 686790E                   |
| 26             | 012330                 | —                         |

**Reference:** SCL Material Standard 6867.5